

1 **ABSTRACT**

2 A method and system for defining a horizon on the surface with reference
3 to the observation point, and identifying a region within the space that is beneath
4 the horizon. Identifying a region that is beneath the horizon includes projecting a
5 ray from the observation point that intersects the horizon and defines an area that
6 is occluded from the observation point. The method and system may also include
7 determining the depth of the region that is beneath the horizon and disregarding
8 this region when the depth is less than a predetermined threshold. In addition, the
9 method and system may identify a region within the space that is beyond the
10 horizon.
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25